

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

Printing date: 10 January 2020



Revision: 10 January 2020

## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

- **1.1 Product identifier**
- **Trade name:** Animal v.2
- **Article number:** 100455
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** Floor cleaner
- **Uses advised against:** No further relevant information available.
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Theochem Laboratories  
7373 Rowlett Park Drive  
Tampa, FL 33610  
Phone: 813-237-6463
- **1.4 Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924 (North America)  
+1 (813)248-0585 (International)



## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**  
Classifications listed are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).  
Acute Tox. 4 H312 Harmful in contact with skin.  
Skin Corr. 1C H314 Causes severe skin burns and eye damage.  
Eye Dam. 1 H318 Causes serious eye damage.  
STOT SE 3 H335 May cause respiratory irritation.
  - **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the Globally Harmonized System within the United States.  
The product is classified and labelled according to the CLP regulation.
  - **Hazard pictograms**
- 

- GHS05 GHS07
- **Signal word** Danger
  - **Hazard-determining components of labelling:**  
2-butoxyethanol  
2-aminoethanol  
Sodium hydroxide
  - **Hazard statements**

(Cont'd. on page 2)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

Printing date: 10 January 2020

Revision: 10 January 2020

**Trade name: Animal v.2**

(Cont'd. from page 1)

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

- **Precautionary statements**

P260 Do not breathe mist/vapours/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **NFPA ratings (scale 0 - 4)**



Health = 3

Fire = 0

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



HEALTH 3 Health = 3

FIRE 0 Fire = 0

REACTIVITY 0 Reactivity = 0

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Components:**

CAS: 111-76-2 EINECS: 203-905-0 Index number: 603-014-00-0 Reg.nr.: 01-2119475108-36-XXXX	2-butoxyethanol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	25-50%
CAS: 141-43-5 EINECS: 205-483-3 Index number: 603-030-00-8 Reg.nr.: 01-2119486455-28-XXXX	2-aminoethanol ⚠ Skin Corr. 1B, H314 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; STOT SE 3, H335	2,5-10%

(Cont'd. on page 3)

# Safety Data Sheet



according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

Printing date: 10 January 2020

Revision: 10 January 2020

**Trade name: Animal v.2**

(Cont'd. from page 2)

	Aquatic Chronic 3, H412	
CAS: 1310-73-2 EINECS: 215-185-5 Index number: 011-002-00-6 Reg.nr.: 01-2119457892-27-XXXX	Sodium hydroxide  Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	≤ 2,5%
CAS: 68439-46-3 EC number: 614-482-0 Reg.nr.: 01-2119980051-45-XXXX	alcohols, C9-11, ethoxylated  Eye Irrit. 2, H319	≤ 2,5%

· **Additional information:**

For the listed ingredient(s), the identity and/or exact percentages are being withheld as a trade secret.  
For the wording of the listed Hazard Statements refer to section 16.

## SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.  
Provide oxygen treatment if affected person has difficulty breathing.

· **After skin contact:**

Immediately remove any clothing soiled by the product.  
Immediately rinse with water.  
If skin irritation continues, consult a doctor.  
Seek immediate medical help for blistering or open wounds.

· **After eye contact:**

Remove contact lenses if worn.  
Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; call for medical help immediately.

· **4.2 Most important symptoms and effects, both acute and delayed**

Dizziness  
Breathing difficulty  
Coughing  
Nausea  
Strong caustic effect on skin and mucous membranes.  
Disorientation

· **Hazards:**

Danger of impaired breathing.  
Danger of disturbed cardiac rhythm.  
Causes serious eye damage.  
Vapours may cause drowsiness and dizziness.  
Harmful in contact with skin.  
May be harmful if inhaled.  
May be harmful if swallowed.

· **4.3 Indication of any immediate medical attention and special treatment needed**

Medical supervision for at least 48 hours.  
Monitor circulation, possible shock treatment.

(Cont'd. on page 4)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

Printing date: 10 January 2020

Revision: 10 January 2020

Trade name: Animal v.2

(Cont'd. from page 3)

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information:** Cool endangered receptacles with water spray.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **6.3 Methods and material for containment and cleaning up**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Send for recovery or disposal in suitable receptacles.  
Clean the affected area carefully; suitable cleaners are:  
Warm water
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Use only in well ventilated areas.  
Avoid splashes or spray in enclosed areas.  
Open and handle receptacle with care.  
Keep out of reach of children.  
Avoid breathing mist/vapours/spray.  
Avoid contact with the eyes and skin.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:**

(Cont'd. on page 5)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

Printing date: 10 January 2020

Revision: 10 January 2020

**Trade name: Animal v.2**

(Cont'd. from page 4)

- Store in cool, dry conditions in well sealed receptacles.  
 Use only receptacles specifically permitted for this substance/product.  
 Unsuitable material for receptacle: glass or ceramic.  
 Unsuitable material for receptacle: aluminium.  
 Unsuitable material for receptacle: steel.
- **Information about storage in one common storage facility:**  
 Store away from foodstuffs.  
 Do not store together with acids.
  - **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### · 8.1 Control parameters

#### · Ingredients with limit values that require monitoring at the workplace:

##### **111-76-2 2-butoxyethanol**

IOELV (EU)	Short-term value: 246 mg/m <sup>3</sup> , 50 ppm Long-term value: 98 mg/m <sup>3</sup> , 20 ppm Skin
EL (Canada)	Long-term value: 20 ppm
EV (Canada)	Long-term value: 20 ppm Skin
WEL (Great Britain)	Short-term value: 246 mg/m <sup>3</sup> , 50 ppm Long-term value: 123 mg/m <sup>3</sup> , 25 ppm Sk, BMGV
OEL (Ireland)	Short-term value: 246 mg/m <sup>3</sup> , 50 ppm Long-term value: 98 mg/m <sup>3</sup> , 20 ppm Sk, IOELV
PEL (USA)	Long-term value: 240 mg/m <sup>3</sup> , 50 ppm Skin
REL (USA)	Long-term value: 24 mg/m <sup>3</sup> , 5 ppm Skin
TLV (USA)	Long-term value: 97 mg/m <sup>3</sup> , 20 ppm BEI

##### **141-43-5 2-aminoethanol**

IOELV (EU)	Short-term value: 7,6 mg/m <sup>3</sup> , 3 ppm Long-term value: 2,5 mg/m <sup>3</sup> , 1 ppm Skin
EL (Canada)	Short-term value: 6 ppm Long-term value: 3 ppm
EV (Canada)	Short-term value: 15 mg/m <sup>3</sup> , 6 ppm Long-term value: 7,5 mg/m <sup>3</sup> , 3 ppm
WEL (Great Britain)	Short-term value: 7,6 mg/m <sup>3</sup> , 3 ppm Long-term value: 2,5 mg/m <sup>3</sup> , 1 ppm Sk
OEL (Ireland)	Short-term value: 7,6 mg/m <sup>3</sup> , 3 ppm

(Cont'd. on page 6)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

Printing date: 10 January 2020

Revision: 10 January 2020

**Trade name: Animal v.2**

(Cont'd. from page 5)

PEL (USA)	Long-term value: 2,5 mg/m <sup>3</sup> , 1 ppm Sk, IOELV
REL (USA)	Long-term value: 6 mg/m <sup>3</sup> , 3 ppm Short-term value: 15 mg/m <sup>3</sup> , 6 ppm
TLV (USA)	Long-term value: 8 mg/m <sup>3</sup> , 3 ppm Short-term value: 15 mg/m <sup>3</sup> , 6 ppm Long-term value: 7,5 mg/m <sup>3</sup> , 3 ppm

**1310-73-2 Sodium hydroxide**

EL (Canada)	Ceiling limit: 2 mg/m <sup>3</sup>
EV (Canada)	Ceiling limit: 2 mg/m <sup>3</sup>
WEL (Great Britain)	Short-term value: 2 mg/m <sup>3</sup>
OEL (Ireland)	Short-term value: 2 mg/m <sup>3</sup>
PEL (USA)	Long-term value: 2 mg/m <sup>3</sup>
REL (USA)	Ceiling limit: 2 mg/m <sup>3</sup>
TLV (USA)	Ceiling limit: 2 mg/m <sup>3</sup>

· **Ingredients with biological limit values:****111-76-2 2-butoxyethanol**

BMGV (Great Britain)	240 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: butoxyacetic acid
BEI (USA)	200 mg/g creatinine Medium: urine Time: end of shift Parameter: Butoxyacetic acid with hydrolysis

· **8.2 Exposure controls**· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.

· **Respiratory protection:**

- Use suitable respiratory protective device in case of insufficient ventilation.
- Use suitable respiratory protective device when aerosol or mist is formed.
- For spills, respiratory protection may be advisable.

· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Eye protection:**

(Cont'd. on page 7)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

Printing date: 10 January 2020

Revision: 10 January 2020

Trade name: Animal v.2

(Cont'd. from page 6)



Safety glasses

- **Body protection:** Alkaline resistant protective clothing
- **Limitation and supervision of exposure into the environment:**  
No further relevant information available.
- **Risk management measures:** No further relevant information available.

## SECTION 9: Physical and chemical properties

### · 9.1 Information on basic physical and chemical properties

#### · Appearance

Form:	Liquid
Colour:	Colourless
· Odour:	Solvent-like
· Odour threshold:	Not determined.

· pH-value at 20 °C (68 °F):	12,0 - 14,0
· Melting point/freezing point:	Not determined.
· Initial boiling point and boiling range:	Not determined.

· Flash point:	Not applicable.
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· Flammability (solid, gas):	Not applicable.
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· Auto/Self-ignition temperature:	Not determined.
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· Decomposition temperature:	Not determined.
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· Explosive properties:	Product does not present an explosion hazard.
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#### · Explosion limits

Lower:	Not determined.
Upper:	Not determined.

· Oxidising properties	Non-oxidising.
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· Vapour pressure:	Not determined.
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#### · Density:

Relative density:	0,98-1,00
Vapour density:	Not determined.
Evaporation rate at 20 °C (68 °F):	< 1,0 g/cm <sup>3</sup> (<8,35 lbs/gal) (Butyl Acetate = 1)

· Solubility in / Miscibility with water:	Fully miscible.
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· Partition coefficient: n-octanol/water:	Not determined.
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#### · Viscosity

Dynamic:	Not determined.
Kinematic:	Not determined.

· 9.2 Other information	No further relevant information available.
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(Cont'd. on page 8)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

Printing date: 10 January 2020

Revision: 10 January 2020

Trade name: Animal v.2

(Cont'd. from page 7)

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**  
Toxic fumes may be released if heated above the decomposition point.  
Reacts with strong oxidising agents.  
Strong exothermic reaction with acids.  
Corrosive action on metals.  
Attacks materials containing glass and silicate.
- **10.4 Conditions to avoid** Avoid acids.
- **10.5 Incompatible materials** Strong acids.
- **10.6 Hazardous decomposition products**  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NOx)

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
  - **Acute toxicity:**  
May be harmful if swallowed or if inhaled.  
Harmful in contact with skin.
- | · <b>LD/LC50 values relevant for classification:</b> |         |                       |
|--|---------|-----------------------|
| <b>111-76-2 2-butoxyethanol</b>                      |         |                       |
| Oral   | LD50    | 1480 mg/kg (rat)      |
| Dermal   | LD50    | 1001-2000 mg/kg (rat) |
| Inhalative   | LC50/4h | 450 ppm (rat)         |
| <b>141-43-5 2-aminoethanol</b>                       |         |                       |
| Oral   | LD50    | 2050 mg/kg (rat)      |
| Dermal   | LD50    | 1000 mg/kg (rabbit)   |
- **Primary irritant effect**
  - **Skin corrosion/irritation:**  
Causes severe skin burns and eye damage.
  - **Serious eye damage/irritation:**  
Causes serious eye damage.
  - **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
  - **Carcinogenic categories**
- | · <b>IARC (International Agency for Research on Cancer):</b> |
|--|
| None of the ingredients are listed.                          |
- **Probable routes of exposure:**  
Ingestion.  
Inhalation.

(Cont'd. on page 9)



# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

Printing date: 10 January 2020

Revision: 10 January 2020

Trade name: Animal v.2

(Cont'd. from page 8)

Eye contact.

Skin contact.

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:**  
May cause respiratory irritation.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** Biodegradable
- **12.3 Bioaccumulative potential** Does not accumulate in organisms.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** After neutralisation a reduction of the harming action may be recognised.
- **Additional ecological information:**
- **General notes:**  
Must not reach sewage water or drainage ditch undiluted or unneutralised.  
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. If the dilution of the use-level pH-value is considerably reduced, the aqueous waste, emptied into drains, is only low water-dangerous.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Small amounts may be diluted with plenty of water and washed away. Dispose of larger amounts in accordance with Local Authority requirements.  
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

(Cont'd. on page 10)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS




Printing date: 10 January 2020

Revision: 10 January 2020

Trade name: Animal v.2

(Cont'd. from page 9)

## SECTION 14: Transport information

<b>· 14.1 UN-Number</b>	
<b>· DOT, ADR, IMDG, IATA</b>	UN1719
<b>· 14.2 UN proper shipping name</b>	
<b>· DOT</b>	Caustic alkali liquids, n.o.s. (sodium hydroxide, 2-aminoethanol)
<b>· ADR, IMDG</b>	CAUSTIC ALKALI LIQUID, N.O.S. (sodium hydroxide, 2-aminoethanol)
<b>· IATA</b>	Caustic alkali liquid, n.o.s. (sodium hydroxide, 2-aminoethanol)
<b>· 14.3 Transport hazard class(es)</b>	
<b>· DOT</b>	
	
<b>· Class</b>	8
<b>· Label</b>	8
<b>· ADR</b>	
	
<b>· Class</b>	8 (C5)
<b>· Label</b>	8
<b>· IMDG, IATA</b>	
	
<b>· Class</b>	8
<b>· Label</b>	8
<b>· 14.4 Packing group</b>	
<b>· DOT, ADR, IMDG, IATA</b>	III
<b>· 14.5 Environmental hazards:</b>	
<b>· Marine pollutant:</b>	No
<b>· 14.6 Special precautions for user</b>	Warning: Corrosive substances.
<b>· Danger code (Kemler):</b>	80
<b>· EMS Number:</b>	F-A,S-B
<b>· Segregation groups</b>	Alkalis
<b>· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.

(Cont'd. on page 11)

## Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

Printing date: 10 January 2020

Revision: 10 January 2020

Trade name: Animal v.2

(Cont'd. from page 10)

· **Transport/Additional information:**

· **DOT**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

· **ADR**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

· **IMDG**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

· **IATA**



Limited Quantity for packages less than 30 kg gross and inner packagings less than 0,5 L each / 1 L net.

### SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **United States (USA)**

· **SARA**

· **Section 355 (extremely hazardous substances)**

None of the ingredients are listed

· **Section 313 (Specific toxic chemical listings):**

111-76-2	2-butoxyethanol
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· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65 (California):**

· **Chemicals known to cause cancer:**

111-42-2	Diethanolamine
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Proprietary | FS-61

· **Chemicals known to cause developmental toxicity for females:**

Proprietary | FS-61

· **Chemicals known to cause developmental toxicity for males**

Proprietary | FS-61

(Cont'd. on page 12)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

Printing date: 10 January 2020

Revision: 10 January 2020

Trade name: Animal v.2

(Cont'd. from page 11)

· <b>Chemicals known to cause developmental toxicity:</b>
Proprietary   FS-61
· <b>EPA (Environmental Protection Agency)</b>
111-76-2   2-butoxyethanol <span style="float: right; border: 1px solid black; padding: 0 5px;">NL</span>
· <b>IARC (International Agency for Research on Cancer)</b>
None of the ingredients are listed.
· <b>Canadian Domestic Substances List (DSL)</b>
All ingredients are listed.
· <b>National regulations:</b>
· <b>Other regulations, limitations and prohibitive regulations</b>
· <b>Substances of very high concern (SVHC) according to REACH, Article 57</b>
None of the ingredients are listed.
· <b>15.2 Chemical safety assessment:</b> A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

- H290 May be corrosive to metals.

- H302 Harmful if swallowed.

- H312 Harmful in contact with skin.

- H314 Causes severe skin burns and eye damage.

- H315 Causes skin irritation.

- H318 Causes serious eye damage.

- H319 Causes serious eye irritation.

- H332 Harmful if inhaled.

- H335 May cause respiratory irritation.

- H412 Harmful to aquatic life with long lasting effects.

- **Abbreviations and acronyms:**

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

- IMDG: International Maritime Code for Dangerous Goods

- DOT: US Department of Transportation

- IATA: International Air Transport Association

- GHS: Globally Harmonised System of Classification and Labelling of Chemicals

- EINECS: European Inventory of Existing Commercial Chemical Substances

- ELINCS: European List of Notified Chemical Substances

- CAS: Chemical Abstracts Service (division of the American Chemical Society)

- NFPA: National Fire Protection Association (USA)

- HMIS: Hazardous Materials Identification System (USA)

- LC50: Lethal concentration, 50 percent

- LD50: Lethal dose, 50 percent

- PBT: Persistent, Bio-accumulable, Toxic

- SVHC: Substances of Very High Concern

- vPvB: very Persistent and very Bioaccumulative

- Met. Corr.1: Corrosive to metals – Category 1

- Acute Tox. 4: Acute toxicity – Category 4

- Skin Corr. 1A: Skin corrosion/irritation – Category 1A

(Cont'd. on page 13)

**Safety Data Sheet**  
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

Printing date: 10 January 2020

Revision: 10 January 2020

**Trade name: Animal v.2**

(Cont'd. from page 12)

Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Skin Corr. 1C: Skin corrosion/irritation – Category 1C  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**Sources**

Website, European Chemicals Agency ([echa.europa.eu](http://echa.europa.eu))  
Website, US EPA Substance Registry Services ([ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do](http://ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do))  
Website, Chemical Abstracts Registry, American Chemical Society ([www.cas.org](http://www.cas.org))  
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6  
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.  
Safety Data Sheets, Individual Manufacturers

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